FIELD CHANGE REQUEST (FCR) FORM

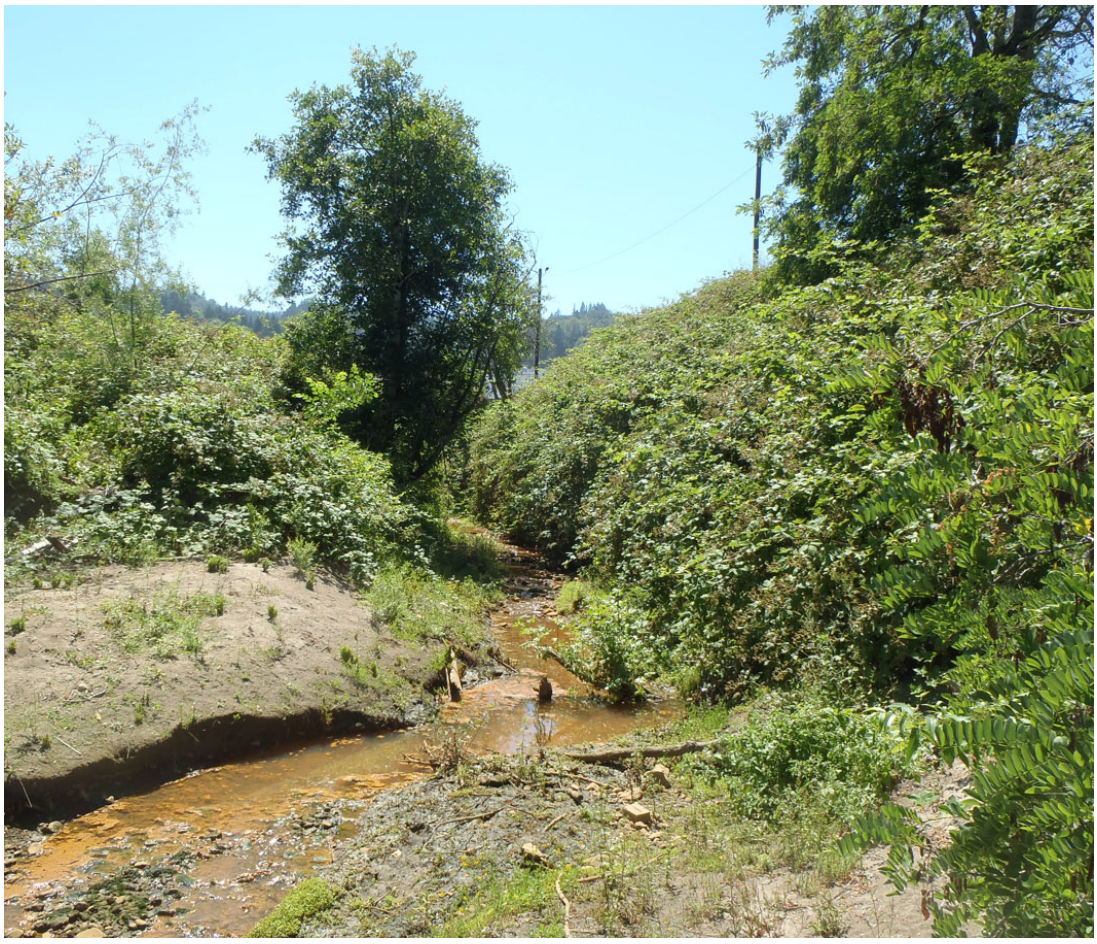
Project Name: _Arkema Project Area – PDI Phase 1_____ Project No.: _CF167_____
Client: _LSS/Retia USA_____ Request No.: _FCR-08____

To: _Madi Novak, EPA_____ Date: _November 28, 2021_____

Field Change Request Title: _SC-88 Sediment Sample Collection Methods

Description:

The Arkema Project Area Pre-Design Investigation (PDI) work plan specifies that the subsurface sediment core will be collected over water using either a vessel-deployed coring device or a barge-mounted drill rig (Section 4.4 of the Field Sampling Plan, Appendix A to the PDI work plan). However, station SC-88 is located in the channel of Saltzman Creek with limited access. The station is inaccessible to a vessel (see photograph below; view of the Saltzman Creek channel). Alternate sampling methods are needed to collect the sediment samples from station SC-88.



Recommended Change:

The sediments will be saturated in the channel of Saltzman Creek, so it is not practical to use a hand auger or post hold digger since the sediment will likely collapse once the first sample is collected. The impact corer system will be used to advance the core to approximately 6-8 ft below ground surface. This system was developed by Gravity Consulting and was used for two of the Arkema riverbank borings in July 2021. Lexan core tube liners will be placed inside a stainless steel core barrel with coring fingers at the bottom of the core barrel to retain the sediment. The core barrel assembly will be advanced using an impact driver (modified jackhammer) or a fence post driver. Once the core barrel is advanced to the target depth, the driver will be removed, approximately 6 oz of deionized or distilled water will be added to the core barrel if necessary to provide suction, and a cap will be placed on the top of the barrel to provide suction to retain the sediment sample. Care will be taken to minimize the potential to leach chlorobenzene, if present, from the sediment. It is anticipated that 6 oz of water will saturate approximately 6 in. of the sediment, assuming a 3-in diameter core tube and sediment with an effective porosity of 25 percent. The core barrel will be manually pulled from the ground. Water will only be added to the core barrel if absolutely necessary to provide enough suction to retain the sediment. The Lexan tube will be removed from the core barrel, and the sediment will be processed in accordance with the PDI work plan.

Amber Lutey	Amber Lutey	November 19, 2021
Field Operations Lead (or designee)	Signature	Date

Approval:

Eron Dodak		November 28, 2021
Project Manager	Signature	Date
Madi Novak	Madi Novak	11/29/2021
EPA Remedial Project Manager	Signature	Date

Distribution:
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Project File
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